

**GOVERNMENT OF INDIA
WATER RESOURCES
LOK SABHA**

STARRED QUESTION NO:180

ANSWERED ON:13.12.2004

LEGISLATION TO REGULATE GROUND WATER

Panda Shri Prabodh;Rawat Shri Bachi Singh

Will the Minister of WATER RESOURCES be pleased to state:

- (a) whether the Government has drawn up any plan for conservation augmentation, exploration and regulation of ground water in the country;
- (b) if so, the details thereof;
- (c) whether the Government proposes to enact any legislation in this regard;
- (d) if so, the details thereof;
- (e) the average ground water level gone down during the Ninth Plan and Tenth Plan period so far, State-wise; and
- (f) the steps taken by the Union Government, States and local bodies in this regard?

Answer

THE MINISTER OF WATER RESOURCES (SHRI PRIYA RANJAN DASMUNSI)

(a) to (f) A Statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY OF PARTS (a) TO (f) OF LOK SABHA STARRED QUESTION NO.180 FOR REPLY ON 13.12.2004 REGARDING LEGISLATION TO REGULATE GROUND WATER

(a) & (b) Yes, Sir. The Central Ground Water Board (CGWB), under the Ministry of Water Resources has prepared a report entitled "Master Plan for Artificial Recharge to Ground Water", which envisages recharge of 36453 Million Cubic Meter volume of surplus monsoon runoff, through construction of 39.25 lakhs artificial recharge and roof top rain water harvesting structures. CGWB has implemented a Central Sector Scheme for Study of Recharge to Ground Water in the country during the VIII & IX Five Year Plans. The CGWB has also proposed a Centrally Sponsored Scheme at an estimated cost of Rs. 175 crores for Artificial Recharge to Groundwater and Rainwater Harvesting during the remaining part of the X Five Year Plan. The CGWB under its regular Annual Action Plan undertakes ground water exploration in various parts of the country. So far, it has drilled about 24000 wells for this purpose. As regards regulation of ground water in the country, the Central Ground Water Authority (CGWA) constituted under the Environment (Protection) Act, 1986 has notified 11 critical areas on consideration of over-exploitation of ground water resources and 32 over-exploited areas for registration of ground water structures. In 673 over-exploited and 425 dark/critical areas in the country, State Pollution Control Boards and Ministry of Environment & Forests obtain No Objection Certificate (NOC) from CGWA for any new industry/projects. A pre-condition for any permission is the mandatory adoption of rain water harvesting system by the industry/project for ground water recharge. On similar lines, other developmental projects located in Coastal Regulation Zone obtain NOC from CGWA as pre-requisite for environment clearance. The CGWA has issued directions to Group Housing Societies, Institutes, Hotels, Industries, Farm Houses etc., in the notified areas of Delhi, Faridabad, Gurgaon and Ghaziabad to adopt rain water harvesting system.

(c) & (d) Water being a State subject, suitable legislation to regulate utilisation of ground water has to be enacted by the State Governments/Union Territories. The Central Government has, however, circulated a Model Bill to regulate and control the development of ground water to all State Governments/Union Territories in 1970 and re-circulated it in 1992 and again in 1996 for adoption. So far the States of Andhra Pradesh, Goa, Kerala, Tamil Nadu and Union Territories of Lakshadweep and Pondicherry have enacted and implemented the ground water legislation on the lines of Model Bill.

(e) A long-term analysis of ground water levels by CGWB, during the years 1995-2004, indicates decline in ground water levels in some parts of districts of various States of the country. The names of these States/districts having pockets of declining water level in the last 10 years (1995-2004) are given in the enclosed Annexure.

(f) The following steps have been taken by Union Government, States, Local bodies to remedy the situation:-

(i) Circulation of Manual/Guidelines on Artificial Recharge of Ground Water to the States/Union Territories to enable them to formulate area specific artificial recharge schemes to check the declining trend of ground water levels.

(ii) Central Ministries/Departments of Railways, Defence, Posts, Telecommunications, Central Public Works Department and National Highways Authority of India have been requested to provide roof top rain water harvesting structures in the buildings under their control.

(iii) States/UTs have been requested to provide water harvesting structures in buildings under their administrative control.

(iv) All the States/Union Territories have been requested for advising the local bodies in their respective States/Union Territories to allow rebate in property tax to persons, who adopt roof top rainwater harvesting in their premises.

(v) CGWB has provided technical guidance on rain water harvesting to around 1800 agencies, including State Government agencies, educational institutions, private entrepreneurs and individuals.

(vi) Launching of a website on Roof Top Rain Water Harvesting (www.cgwbindia.com) to make aware and educate the public about various techniques of harvesting rainwater and store it for future use.

(vii) Organisation of mass awareness programmes and training courses on rainwater harvesting and artificial recharge of ground water.

(viii) Water conservation campaign has been launched keeping in view the various target groups like youth and children, women, farmers and villagers, policy and opinion makers. Publicity through print media, telecasting of spots on the television, broadcasting messages on radio, holding of seminars, workshops, conferences etc., have been undertaken for the purpose.

(ix) The Government of Gujarat has banned new tubewells in 54 talukas where there is over-exploitation of ground water. Metropolitan areas have notified rules under which no new building plan is approved without corresponding rain water harvesting structure and Department of Roads & Buildings has been directed to ensure that all major Government constructions have adequate rain water harvesting facilities.

(x) The Government of Maharashtra has adopted a resolution to promote the scheme on rain water harvesting which provides that all houses should have provision for rain water harvesting without which house construction plan should not be sanctioned.

(xi) The Government of Tamil Nadu has launched the implementation of rain water harvesting scheme on a massive scale in all Government buildings, private houses/Institutions and commercial buildings in urban and rural areas.

(xii) The Government of Nagaland has made provision of roof top rain water harvesting compulsory for all new Government buildings.

(xiii) The Government of NCT of Delhi has issued instructions for setting up rain water harvesting systems in Government buildings. Moreover, the Ministry of Urban Development & Poverty Alleviation has amended Building Bye-laws, 1983, making provision for water harvesting through storing of water run-off including rain water in all new buildings on plots of 100 square meters and above in Delhi mandatory.

(xiv) The Government of Rajasthan has made it compulsory for all State buildings on plots measuring more than 500 sq.mts. to adopt rain water harvesting for recharging the ground water aquifers.

(xv) The Government of Karnataka has initiated action to amend building bye-laws in major cities having population of more than 20 lakh to make rain water harvesting mandatory.

(xvi) The Government of Haryana has amended the Haryana Municipal Building Bye-laws 1982, to incorporate the provision of roof top rain water harvesting compulsory.

(xvii) The Government of Kerala has enacted legislation making roof top rain water harvesting mandatory in all new constructions in municipal areas.

(xviii) The Government of West Bengal has taken up promotion of roof top rain water harvesting in Government buildings in seven priority districts.

(xix) The Government of Uttar Pradesh has issued circular to all local bodies making roof top rain water harvesting mandatory in all new constructions in municipal areas.

(xx) The Government of Meghalaya has instructed the concerned Department to provide funds under their respective annual plan for construction of roof top rain water harvesting structures in Government buildings.

(xxi) The Administration of Daman & Diu has issued instruction to the local PWD for construction of roof top rain water harvesting structures and accordingly, PWD has initiated action. It has also advised the local bodies such as Municipality and District Panchayat to make provision for construction of roof top rain water harvesting structures.

(xxii) The Administration of Lakshadweep has already taken active steps for construction of rain water harvesting structures. The Administration has already constructed 1786 rain water harvesting structures in different islands.

ANNEXURE

(REFERENCE LOK SABHA STARRED QUESTION NO. 180 DATED 13.12.2004)

Name of Districts showing fall of water level (in parts) in last 10 years (1995-2004) during Pre-Monsoon period

Sl. State/U.T. Districts showing declining trends (more than 20 cm per year)
No.

- 1 Andhra Pradesh Adilabad, Anantapur, Chittoor, Cuddapah, East Godavari, Guntur, Hyderabad, Karimnagar, Khammam, Krishna, Kurnool, Mahbubnagar, Medak, Nalgonda, Nellore, Nizamabad, Prakasam, Ranga Reddy, Srikakulam, Visakhapatnam, Vizianagaram, Warangal, West Godavari
- 2 Assam Jorhat, Nagaon, Sonitpur
- 3 Bihar Bhagalpur, East Champaran, Munger, Muzaffarpur, Navada, Saharsa, Saran,
- 4 Chhattisgarh Bastar, Bilaspur, Dhamtari, Durg, Janjgir-champa, Kanker, Kawardah, Koriya, Mahasamund, Raigarh, Raipur, Rajnandgaon, Surguja
- 5 Delhi New Delhi, North West, South, South West,
- 6 Gujarat Ahmedabad, Amreli, Banashkantha, Bharuch, Bhavnagar, Dangs, Gandhinagar, Jamnagar, Junagarh, Kheda, Kutch, Mehsana, Panchmahal, Rajkot, Sabarkantha, Surat, Surendranagar, Vadodara, Valsad
- 7 Haryana Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendragarh, Panipat, Rewari, Rohtak, Sirsa, Sonipat
- 8 Himachal Pradesh Kangra, Kullu, Mandi, Sirmur, Solan, Una
- 9 Jharkhand Dhanbad, Dumka, Hazaribagh, Lohardaga, Pacchim Singhbhum, Palamu, Purvi Singhbhum, Ranchi
- 10 Jammu & Kashmir Jammu, Kathua, Rajouri, Udhampur
- 11 Karnataka Bagalkot, Bangalore, Belgaum, Bellary, Bidar, Bijapur, Chamrajnagar, Chikmagalur, Chitradurga, Coorg, Dakshin Kannada, Dharwad, Gadag, Gulbarga, Hassan, Haveri, Kolar, Koppal, Mandya, Mysore, Raichur, Shimoga, Tumkur, Uddupi, Uttara Kannada
- 12 Kerala Idduki, Kanoor, Kasargod, Kollam, Kottayam, Mallapuram, Palakkad, Thiruvananthapuram, Thrissur, Wayanad
- 13 Madhya Pradesh Barwani, Balaghat, Betul, Bhind, Bhopal, Chhatarpur, Chhindwara, Damoh, Datia, Dewas, Dhar, Dindhori, Guna, Gwalior, Harda, Hoshangabad, Indore, Jabalpur, Jhabua, Katni, Khandwa, Mandsaur, Morena, Mandla, Narsinghpur, Neemuch, Panna, Raisen, Rajgarh, Ratlam, Rewa, Sagar, Satna, Sehore, Seoni, Shahdol, Shajapur, Sheopur, Shivpuri, Sidhi, Tikamgarh, Ujjain, Umaria, Vidisha, West Nimar
- 14 Maharashtra Ahmadnagar, Akola, Amravati, Aurangabad, Beed, Bhandara, Buldana, Chandrapur, Dhule, Gadchiroli, Gondia, Hingoli, Jalgaon, Jalna, Kolhapur, Latur, Mumbai, Nagpur, Nanded, Nandurbar, Nashik, Osmanabad, Parbhani, Pune, Raigad, Ratnagiri, Sangli, Satara, Sindhudurg, Solapur, Thane, Wardha, Washim, Yavatmal
- 15 Orissa Angul, Baleshwar, Bargarh, Cuttack, Dhenkanal, Ganjam, Jajpur, Jharsuguda, Kalahandi, Koraput, Kendujhaar, Mayurbhanj, Nawapara, Phulbani, Puri, Rayagada, Sambalpur, Sundargarh
- 16 Punjab Amritsar, Bhatinda, Faridkot, Fatehgarh, Ferozepur, Gurdaspur, Hoshiarpur, Jalandhar, Karpurthala, Ludhiana, Mansa, Moga, Nawashahar, Patiala, Ropar, Sangrur
- 17 Rajasthan Ajmer, Alwar, Banswara, Baran, Barmer, Bharatpur, Bhilwara, Bikaner, Bundi, Chittorgarh, Churu, Dausa, Dholpur, Dungarpur, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalwar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Rajsamand, Sawaimadhopur, Sikar, Sirohi, Tonk, Udaipur
- 18 Tamil Nadu Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Kancheepuram, Kanyakumari, Karaikal, Karur, Madurai, Namakkal, Nilgiri,

	Perambalur, Ramanathapuram, Salem, Sivaganga, Thanjavur, Theni, Tiruchirappalli, Tirunelveli, Thiruvallur, Tiruvannamalai, Tuticorin, Vellore, Vellupuram, Virudhanagar
19 Uttar Pradesh	Agra, Aligarh, Allahabad, Auraiya, Azamgarh, Badaun, Baghpat, Ballia, Bijnor, Chandauli, Chitrakoot, Deoria, Etawah, Fatehpur, Gautam Budh Nagar, Ghaziabad, Gonda, Hamirpur, Hathras, Jalaun, Jhansi, Kanpur Dehat, Kanpur Nagar, Lakhimpur Kheri, Lalitpur, Lucknow, Mahoba, Mathura, Meerut, Mirzapur, Pratapgarh, Saharanpur, Sitapur, Sultanpur, Unnao
20 Uttaranchal	Dehradun, Haridwar
21 West Bengal	Bankura, Bardhaman, Birbhum, Haora, Hugli, East Medinipur, Malda, Murshidabad, Puruliya, South Twenty four Parganas, West Medinipur
22 D & N Haveli	Dadra & Nagar Haveli
23 Pondicherry	Pondicherry
Sl. State/U.T. Districts showing declining trends (more than 20 cm per year) No.	
1 Andhra Pradesh	Adilabad, Anantapur, Chittoor, Cuddapah, East Godavari, Guntur, Hyderabad, Karimnagar, Khammam, Krishna, Kurnool, Mahbubnagar, Medak, Nalgonda, Nellore, Nizamabad, Prakasam, Ranga Reddy, Srikakulam, Visakhapatnam, Vizianagaram, Warangal, West Godavari
2 Assam	Jorhat, Nagaon, Sonitpur
3 Bihar	Bhagalpur, East Champaran, Munger, Muzaffarpur, Navada, Saharsa, Saran,
4 Chhattisgarh	Bastar, Bilaspur, Dhamtari, Durg, Janjgir-champa, Kanker, Kawardah, Koriya, Mahasamund, Raigarh, Raipur, Rajnandgaon, Surguja
5 Delhi	New Delhi, North West, South, South West,
6 Gujarat	Ahmedabad, Amreli, Banashkantha, Bharuch, Bhavnagar, Dangs, Gandhinagar, Jamnagar, Junagarh, Kheda, Kutch, Mehsana, Panchmahal, Rajkot, Sabarkantha, Surat, Surendranagar, Vadodara, Valsad
7 Haryana	Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendragarh, Panipat, Rewari, Rohtak, Sirsa, Sonapat
8 Himachal Pradesh	Kangra, Kullu, Mandi, Sirmur, Solan, Una
9 Jharkhand	Dhanbad, Dumka, Hazaribagh, Lohardaga, Pacchim Singhbhum, Palamu, Purvi Singhbhum, Ranchi
10 Jammu & Kashmir	Jammu, Kathua, Rajouri, Udhampur
11 Karnataka	Bagalkot, Bangalore, Belgaum, Bellary, Bidar, Bijapur, Chamrajnagar, Chikmagalur, Chitradurga, Coorg, Dakshin Kannada, Dharwad, Gadag, Gulbarga, Hassan, Haveri, Kolar, Koppal, Mandya, Mysore, Raichur, Shimoga, Tumkur, Uduppi, Uttara Kannada
12 Kerala	Idduki, Kanoor, Kasargod, Kollam, Kottayam, Mallapuram, Palakkad, Thiruvananthapuram, Thrissur, Wayanad
13 Madhya Pradesh	Barwani, Balaghat, Betul, Bhind, Bhopal, Chhatarpur, Chhindwara, Damoh, Datia, Dewas, Dhar, Dindhori, Guna, Gwalior, Harda, Hoshangabad, Indore, Jabalpur, Jhabua, Katni, Khandwa, Mandsaur, Morena, Mandla, Narsinghpur, Neemuch, Panna, Raisen, Rajgarh, Ratlam, Rewa, Sagar, Satna, Sehore, Seoni, Shahdol, Shajapur, Sheopur, Shivpuri, Sidhi, Tikamgarh, Ujjain, Umaria, Vidisha, West Nimar
14 Maharashtra	Ahmadnagar, Akola, Amravati, Aurangabad, Beed, Bhandara, Buldana, Chandrapur, Dhule, Gadchiroli, Gondia, Hingoli, Jalgaon, Jalna, Kolhapur, Latur, Mumbai, Nagpur, Nanded, Nandurbar, Nashik, Osmanabad, Parbhani, Pune, Raigad, Ratnagiri, Sangli, Satara, Sindhudurg, Solapur, Thane, Wardha, Washim, Yavatmal
15 Orissa	Angul, Baleshwar, Bargarh, Cuttack, Dhenkanal, Ganjam, Jajpur, Jharsuguda, Kalahandi, Koraput, Kendujhaar, Mayurbhanj, Nawapara, Phulbani, Puri, Rayagada, Sambalpur, Sundargarh
16 Punjab	Amritsar, Bhatinda, Faridkot, Fatehgarh, Ferozepur, Gurdaspur, Hoshiarpur, Jalandhar, Karpurthala, Ludhiana, Mansa, Moga, Nawashahar, Patiala, Ropar, Sangrur
17 Rajasthan	Ajmer, Alwar, Banswara, Baran, Barmer, Bharatpur, Bhilwara, Bikaner, Bundi, Chittorgarh, Churu, Dausa,

		Dholpur, Dungarpur, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalwar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Rajsamand, Sawaimadhopur, Sikar, Sirohi, Tonk, Udaipur
18	Tamil Nadu	Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Kancheepuram, Kanyakumari, Karaikal, Karur, Madurai, Namakkal, Nilgiri, Perambalur, Ramanathapuram, Salem, Sivaganga, Thanjavur, Theni, Tiruchirappalli, Tirunelveli, Thiruvallur, Tiruvannamalai, Tuticorin, Vellore, Vellupuram, Virudhanagar
19	Uttar Pradesh	Agra, Aligarh, Allahabad, Auraiya, Azamgarh, Badaun, Baghpat, Ballia, Bijnor, Chandauli, Chitrakoot, Deoria, Etawah, Fatehpur, Gautam Budh Nagar, Ghaziabad, Gonda, Hamirpur, Hathras, Jalaun, Jhansi, Kanpur Dehat, Kanpur Nagar, Lakhimpur Kheri, Lalitpur, Lucknow, Mahoba, Mathura, Meerut, Mirzapur, Pratapgarh, Saharanpur, Sitapur, Sultanpur, Unnao
20	Uttaranchal	Dehradun, Haridwar
21	West Bengal	Bankura, Bardhaman, Birbhum, Haora, Hugli, East Medinipur, Malda, Murshidabad, Puruliya, South Twenty four Parganas, West Medinipur
22	D & N Haveli	Dadra & Nagar Haveli
23	Pondicherry	Pondicherry
Sl. State/U.T. Districts showing declining trends (more than 20 cm per year)		
No.		
1	Andhra Pradesh	Adilabad, Anantapur, Chittoor, Cuddapah, East Godavari, Guntur, Hyderabad, Karimnagar, Khammam, Krishna, Kurnool, Mahbubnagar, Medak, Nalgonda, Nellore, Nizamabad, Prakasam, Ranga Reddy, Srikakulam, Visakhapatnam, Vizianagaram, Warangal, West Godavari
2	Assam	Jorhat, Nagaon, Sonitpur
3	Bihar	Bhagalpur, East Champaran, Munger, Muzaffarpur, Navada, Saharsa, Saran,
4	Chhattisgarh	Bastar, Bilaspur, Dhamtari, Durg, Janjgir-champa, Kanker, Kawardah, Koriya, Mahasamund, Raigarh, Raipur, Rajnandgaon, Surguja
5	Delhi	New Delhi, North West, South, South West,
6	Gujarat	Ahmedabad, Amreli, Banashkantha, Bharuch, Bhavnagar, Dangs, Gandhinagar, Jamnagar, Junagarh, Kheda, Kutch, Mehsana, Panchmahal, Rajkot, Sabarkantha, Surat, Surendranagar, Vadodara, Valsad
7	Haryana	Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendragarh, Panipat, Rewari, Rohtak, Sirsa, Sonipat
8	Himachal Pradesh	Kangra, Kullu, Mandi, Sirmur, Solan, Una
9	Jharkhand	Dhanbad, Dumka, Hazaribagh, Lohardaga, Pacchim Singhbhum, Palamu, Purvi Singhbhum, Ranchi
10	Jammu & Kashmir	Jammu, Kathua, Rajouri, Udhampur
11	Karnataka	Bagalkot, Bangalore, Belgaum, Bellary, Bidar, Bijapur, Chamrajnagar, Chikmagalur, Chitradurga, Coorg, Dakshin Kannada, Dharwad, Gadag, Gulbarga, Hassan, Haveri, Kolar, Koppal, Mandya, Mysore, Raichur, Shimoga, Tumkur, Uddupi, Uttara Kannada
12	Kerala	Idduki, Kanoor, Kasargod, Kollam, Kottayam, Mallapuram, Palakkad, Thiruvananthapuram, Thrissur, Wayanad
13	Madhya Pradesh	Barwani, Balaghat, Betul, Bhind, Bhopal, Chhatarpur, Chhindwara, Damoh, Datia, Dewas, Dhar, Dindhori, Guna, Gwalior, Harda, Hoshangabad, Indore, Jabalpur, Jhabua, Katni, Khandwa, Mandsaur, Morena, Mandla, Narsinghpur, Neemuch, Panna, Raisen, Rajgarh, Ratlam, Rewa, Sagar, Satna, Sehore, Seoni, Shahdol, Shajapur, Sheopur, Shivpuri, Sidhi, Tikamgarh, Ujjain, Umaria, Vidisha, West Nimar
14	Maharashtra	Ahmadnagar, Akola, Amravati, Aurangabad, Beed, Bhandara, Buldana, Chandrapur, Dhule, Gadchiroli, Gondia, Hingoli, Jalgaon, Jalna, Kolhapur, Latur, Mumbai, Nagpur, Nanded, Nandurbar, Nashik, Osmanabad, Parbhani, Pune, Raigad, Ratnagiri, Sangli, Satara, Sindhudurg, Solapur, Thane, Wardha, Washim, Yavatmal
15	Orissa	Angul, Baleswar, Bargarh, Cuttack, Dhenkanal, Ganjam, Jajpur, Jharsuguda, Kalahandi, Koraput, Kendujhaar, Mayurbhanj, Nawapara, Phulbani, Puri,

- 16 Punjab Rayagada, Sambalpur, Sundargarh
Amritsar, Bhatinda, Faridkot, Fatehgarh, Ferozepur,
Gurdaspur, Hoshiarpur, Jalandhar, Karpurthala,
Ludhiana, Mansa, Moga, Nawashahar, Patiala, Ropar,
Sangrur
- 17 Rajasthan Ajmer, Alwar, Banswara, Baran, Barmer, Bharatpur,
Bhilwara, Bikaner, Bundi, Chittorgarh, Churu, Dausa,
Dholpur, Dungarpur, Hanumangarh, Jaipur, Jaisalmer,
Jalore, Jhalwar, Jhunjhunu, Jodhpur, Karauli, Kota,
Nagaur, Pali, Rajsamand, Sawaimadhopur, Sikar,
Sirohi, Tonk, Udaipur
- 18 Tamil Nadu Chennai, Coimbatore, Cuddalore, Dharmapuri,
Dindigul, Erode, Kancheepuram, Kanyakumari,
Karaikal, Karur, Madurai, Namakkal, Nilgiri,
Perambalur, Ramanathapuram, Salem, Sivaganga,
Thanjavur, Theni, Tiruchirappalli, Tirunelveli,
Thiruvallur, Tiruvannamalai, Tuticorin, Vellore,
Vellupuram, Virudhanagar
- 19 Uttar Pradesh Agra, Aligarh, Allahabad, Auraiya, Azamgarh, Badaun,
Baghpat, Ballia, Bijnor, Chandauli, Chitrakoot,
Deoria, Etawah, Fatehpur, Gautam Budh Nagar,
Ghaziabad, Gonda, Hamirpur, Hathras, Jalaun,
Jhansi, Kanpur Dehat, Kanpur Nagar, Lakhimpur Kheri,
Lalitpur, Lucknow, Mahoba, Mathura, Meerut,
Mirzapur, Pratapgarh, Saharanpur, Sitapur,
Sultanpur, Unnao
- 20 Uttaranchal Dehradun, Haridwar
- 21 West Bengal Bankura, Bardhaman, Birbhum, Haora, Hugli, East
Medinipur, Malda, Murshidabad, Puruliya, South
Twenty four Parganas, West Medinipur
- 22 D & N Haveli Dadra & Nagar Haveli
- 23 Pondicherry Pondicherry
- Sl. State/U.T. Districts showing declining trends (more than 20 cm per year)
No.

- 1 Andhra Pradesh Adilabad, Anantapur, Chittoor, Cuddapah, East
Godavari, Guntur, Hyderabad, Karimnagar, Khammam,
Krishna, Kurnool, Mahbubnagar, Medak, Nalgonda,
Nellore, Nizamabad, Prakasam, Ranga Reddy,
Srikakulam, Visakhapatnam, Vizianagaram, Warangal,
West Godavari
- 2 Assam Jorhat, Nagaon, Sonitpur
- 3 Bihar Bhagalpur, East Champaran, Munger, Muzaffarpur,
Navada, Saharsa, Saran,
- 4 Chhattisgarh Bastar, Bilaspur, Dhamtari, Durg, Janjgir-champa,
Kanker, Kawardah, Koriya, Mahasamund, Raigarh,
Raipur, Rajnandgaon, Surguja
- 5 Delhi New Delhi, North West, South, South West,
- 6 Gujarat Ahmedabad, Amreli, Banashkantha, Bharuch, Bhavnagar,
Dangs, Gandhinagar, Jamnagar, Junagarh, Kheda,
Kutch, Mehsana, Panchmahal, Rajkot, Sabarkantha,
Surat, Surendranagar, Vadodara, Valsad
- 7 Haryana Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon,
Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra,
Mahendragarh, Panipat, Rewari, Rohtak, Sirsa,
Sonapat
- 8 Himachal Pradesh Kangra, Kullu, Mandi, Sirmur, Solan, Una
- 9 Jharkhand Dhanbad, Dumka, Hazaribagh, Lohardaga, Pacchim
Singhbhum, Palamu, Purvi Singhbhum, Ranchi
- 10 Jammu & Kashmir Jammu, Kathua, Rajouri, Udhampur
- 11 Karnataka Bagalkot, Bangalore, Belgaum, Bellary, Bidar,
Bijapur, Chamrajnagar, Chikmagalur, Chitradurga,
Coorg, Dakshin Kannada, Dharwad, Gadag, Gulbarga,
Hassan, Haveri, Kolar, Koppal, Mandya, Mysore,
Raichur, Shimoga, Tumkur, Udupi, Uttara Kannada
- 12 Kerala Idduki, Kanoor, Kasargod, Kollam, Kottayam,
Mallapuram, Palakkad, Thiruvananthapuram, Thrissur,
Wayanad
- 13 Madhya Pradesh Barwani, Balaghat, Betul, Bhind, Bhopal, Chhatarpur,
Chhindwara, Damoh, Datia, Dewas, Dhar, Dindhori,
Guna, Gwalior, Harda, Hoshangabad, Indore, Jabalpur,
Jhabua, Katni, Khandwa, Mandsaur, Morena, Mandla,
Narsinghpur, Neemuch, Panna, Raisen, Rajgarh,
Ratlam, Rewa, Sagar, Satna, Sehore, Seoni, Shahdol,
Shajapur, Sheopur, Shivpuri, Sidhi, Tikamgarh,
Ujjain, Umaria, Vidisha, West Nimar
- 14 Maharashtra Ahmदनagar, Akola, Amravati, Aurangabad, Beed,
Bhandara, Buldana, Chandrapur, Dhule, Gadchiroli,
Gondia, Hingoli, Jalgaon, Jalna, Kolhapur, Latur,
Mumbai, Nagpur, Nanded, Nandurbar, Nashik,

- Osmanabad, Parbhani, Pune, Raigad, Ratnagiri, Sangli, Satara, Sindhudurg, Solapur, Thane, Wardha, Washim, Yavatmal
- 15 Orissa Angul, Baleshwar, Bargarh, Cuttack, Dhenkanal, Ganjam, Jajpur, Jharsuguda, Kalahandi, Koraput, Kendujhaar, Mayurbhanj, Nawapara, Phulbani, Puri, Rayagada, Sambalpur, Sundargarh
- 16 Punjab Amritsar, Bhatinda, Faridkot, Fatehgarh, Ferozepur, Gurdaspur, Hoshiarpur, Jalandhar, Karpurthala, Ludhiana, Mansa, Moga, Nawashahar, Patiala, Ropar, Sangrur
- 17 Rajasthan Ajmer, Alwar, Banswara, Baran, Barmer, Bharatpur, Bhilwara, Bikaner, Bundi, Chittorgarh, Churu, Dausa, Dholpur, Dungarpur, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalwar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Rajsamand, Sawaimadhopur, Sikar, Sirohi, Tonk, Udaipur
- 18 Tamil Nadu Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Kancheepuram, Kanyakumari, Karaikal, Karur, Madurai, Namakkal, Nilgiri, Perambalur, Ramanathapuram, Salem, Sivaganga, Thanjavur, Theni, Tiruchirappalli, Tirunelveli, Thiruvallur, Tiruvannamalai, Tuticorin, Vellore, Vellupuram, Virudhanagar
- 19 Uttar Pradesh Agra, Aligarh, Allahabad, Auraiya, Azamgarh, Badaun, Baghpat, Ballia, Bijnor, Chandauli, Chitrakoot, Deoria, Etawah, Fatehpur, Gautam Budh Nagar, Ghaziabad, Gonda, Hamirpur, Hathras, Jalaun, Jhansi, Kanpur Dehat, Kanpur Nagar, Lakhimpur Kheri, Lalitpur, Lucknow, Mahoba, Mathura, Meerut, Mirzapur, Pratapgarh, Saharanpur, Sitapur, Sultanpur, Unnao
- 20 Uttaranchal Dehradun, Haridwar
- 21 West Bengal Bankura, Bardhaman, Birbhum, Haora, Hugli, East Medinipur, Malda, Murshidabad, Puruliya, South Twenty four Parganas, West Medinipur
- 22 D & N Haveli Dadra & Nagar Haveli
- 23 Pondicherry Pondicherry